

**Bargraph Display**

10 Red LED with driver circuit

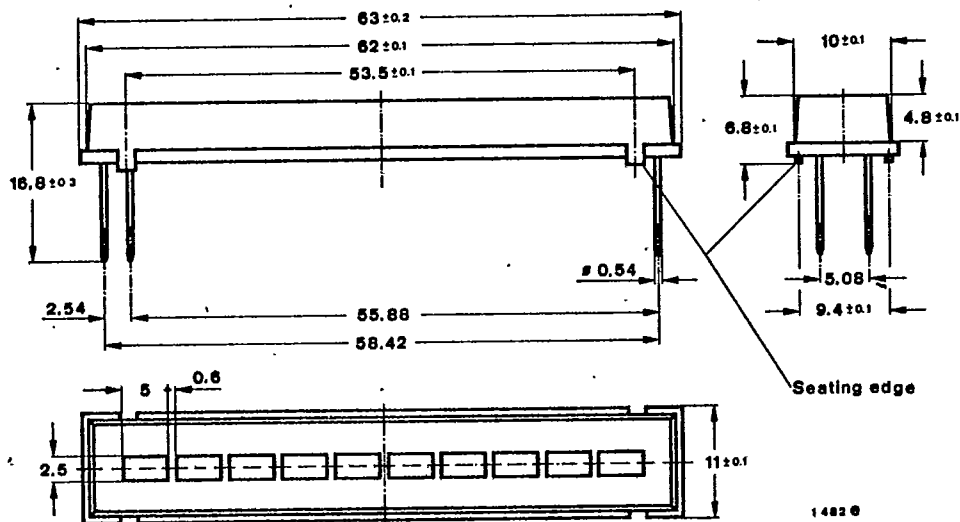
T-41-37

F-19-36

Application: Analogue voltage indicator as bargraph display

**Features:**

- Built-in IC
- No external components necessary
- 10 linear display stages-soft transition
- High input resistance
- Very low cross talk
- Wide viewing angle

**Dimensions in mm**

14820

Filter cap: red

Angle of half intensity

 $\varphi = \pm 30^\circ$ 

Weight max. 6 g

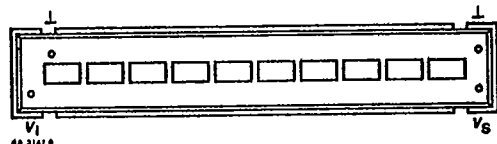


Fig. 1 Pin connections

# D 620 P

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## Absolute maximum ratings

Supply voltage	$V_S$	15	V
Supply current	$I_S$	53	mA
Input voltage	$V_I$	5	V
Input current	$I_I$	1	mA
Total power dissipation $T_{amb} = 40\text{ °C}$	$P_{tot}$	800	mW
Junction temperature			
IC	$T_J$	150	°C
LED	$T_J$	100	°C
Ambient temperature range	$T_{amb}$	-10...+50	°C
Storage temperature range	$T_{stg}$	-25...+85	°C
Soldering temperature range 2 mm from case, $t = 2\text{ s}$	$T_{sd}$	260	°C

## Maximum thermal resistance

Junction ambient	$R_{thJA}$	130	K/W
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## Optical and electrical characteristics

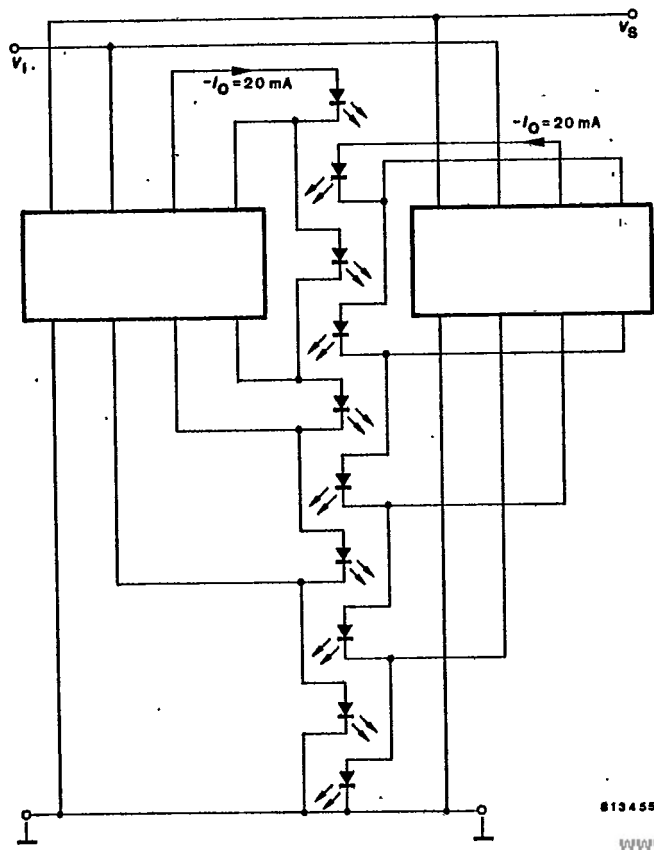
$V_S = 12\text{ V}$ ,  $T_{amb} = 25\text{ °C}$

Supply voltage range	$V_S$	12	15	V
Total supply current	$I_S$	30	53	mA
Input current	$-I_I$		5	nA
Input voltages of soft transitions	$V_I$	110; 200		mV
	$V_I$	290; 380		mV
	$V_I$	470; 560		mV
	$V_I$	650; 740		mV
	$V_I$	830; 920		mV
Luminous intensity per segment	$I_v$	150		µcd
Matching factor				
$m = \frac{I_{vmin}}{I_{vmax}}$	$m$	0.5		
Dominant wavelength	$\lambda_D$			nm

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Fig. 2 Diagram